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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO |
|----------------------------|---------------|-------------------------|---------------------|-----------------|
| 10/026,255 | 12/21/2001 | Kazumasa Kimura | 85A 3183 | 7870 |
| 75 | 90 10/06/2004 | | EXAM | INER |
| KODA & ANDROLIA | | | RAO, SHEELA S | |
| 2029 CENTUR | Y PARK EAST | | | |
| SUITE 1430 | | ART UNIT | PAPER NUMBER | |
| LOS ANGELES, CA 90067-3024 | | | 2125 | |
| | | DATE MAILED: 10/06/2004 | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | Application No. | Applicant(s) | | | | |
|--|--|---|--|--|--|--|
| | 10/026,255 | KIMURA ET AL. | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | Sheela Rao | 2125 | | | | |
| The MAILING DATE of this communication app Period for Reply | ears on the cover sheet with the c | orrespondence address | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | i6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI | nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133). | | | | |
| Status | | | | | | |
| 1) Responsive to communication(s) filed on | _• | | | | | |
| 2a)⊠ This action is FINAL . 2b)☐ This | This action is FINAL . 2b) ☐ This action is non-final. | | | | | |
| 3) Since this application is in condition for allowar |)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the ments is | | | | | |
| closed in accordance with the practice under E | x parte Quayle, 1935 C.D. 11, 45 | i3 O.G. 213. | | | | |
| Disposition of Claims | | | | | | |
| 4) ☐ Claim(s) is/are pending in the application. | | | | | | |
| 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | |
| 5) Claim(s) is/are allowed. | | | | | | |
| 6) ☐ Claim(s) is/are rejected. | | | | | | |
| 7) Claim(s) is/are objected to. | | | | | | |
| 8) Claim(s) are subject to restriction and/or | election requirement. | | | | | |
| Application Papers | | | | | | |
| 9) The specification is objected to by the Examine | r. | | | | | |
| 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. | | | | | | |
| Applicant may not request that any objection to the | drawing(s) be held in abeyance. See | e 37 CFR 1.85(a). | | | | |
| Replacement drawing sheet(s) including the correct | on is required if the drawing(s) is obj | ected to. See 37 CFR 1.121(d). | | | | |
| 11) ☐ The oath or declaration is objected to by the Ex | aminer. Note the attached Office | Action or form PTO-152. | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori | s have been received. s have been received in Applicati | on No | | | | |
| application from the International Bureau | ı (PCT Rule 17.2(a)). | • | | | | |
| * See the attached detailed Office action for a list | of the certified copies not receive | d. | | | | |
| Attachment(s) | | | | | | |
| 1) Notice of References Cited (PTO-892) | 4) Interview Summary | | | | | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | Paper No(s)/Mail Da 5) Notice of Informal P | ite atent Application (PTO-152) | | | | |
| Paper No(s)/Mail Date | 6) Other: | • | | | | |

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DETAILED ACTION

 Applicant's response to the Office Action was received on June 24, 2004. Amendments have been made to claims 1 and 10 and to the specification. Claims 1-10 are pending and presented for examination.

Response to Amendment

2. The rejection of claims 1-10 under 35 USC § 103(a) as being unpatentable over Nayakama (USPN 5,483,626) in view of Kinnaird (USPN 6,564,115 B1) is maintained and restated below.

Claim Rejections - 35 USC § 103

- The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior
 Office action.
- 4. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakayama (USPN 5,483,626) in view of Kinnaird (USPN 6,564,115 B1).

Nakayama discloses a graphic transforming apparatus and method for its use. The invention of the prior art uses a computer system that comprises object and/or pattern acquiring means from a library of stored data images. Portions of these graphic objects or patterns, obtained from the data library, are then used to be redrawn into objects as per set requirements. The use of a computer system (Figure 2) incorporates a display screen or an image drawing means (col.3: lines 43-45), a pointer/cursor or handle display means (col. 3: line 41), a mouse or manipulating input means (col. 3: line 36), the combination or the pointer and mouse enables a redrawing means (col. 3: lines 1-15), and the pattern menu area that includes a library or the parameter calculation/value display means (col. 3: lines 53-55), a keyboard or parameter value input means (col. 3: line31). The calculations and decision making factors for determining if the correct data has been used and reworked, similar to the judgment means, are accomplished by the control unit of the CPU as depicted in Figures 7 and 11 (col. 5: lines 5-46). In the event of an error or miscalculation or out-of-range output means, an error is displayed to prompt the operator (col. 5: lines 41-45, Fig. 11). As for the data setting device and operating parameters of the

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instant invention, Nakayama teaches the claimed limitations. However, the environment of the instant invention, wire bonding data and device, is not taught by the prior art of reference.

For this reason, the patented reference to Kinnaird is relied upon. The invention of Kinnaird discloses the use of an automated system and method for bonding and testing of wire connections in an integrated circuit chip. Kinnaird uses a computer-controlled device to automatically adjust bonding parameters. The system includes a bonding parameter storage means, a visual subsystem, along with positioning commands and measurements to operate the bonding tool upon an XY table. Kinnaird further uses the automated system for testing purposes so as to make a more efficient system with minimal errors. See Figure 1. The testing means of the patented invention automatically converts the testing data into bonding parameters (col. 2: lines 49-50). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have combined the graphical transforming apparatus and method of Nakayama with the automated wire bonding means of Kinnaird to introduce assembly concepts that are flexible and easy; yielding a more automated effective and efficient wire bonding apparatus and method therefore.

Response to Arguments

5. Applicant's arguments filed June 24, 2004 have been fully considered but they are not persuasive.

The rejection of claims 1-10 over Nakayama in view of Kinnaird has been maintained because the prior arts of record relied upon teach the limitations of the instant invention as claimed. Furthermore, Applicant goes on to argue aspects of the invention that have not been claimed, thereby establishing the instant claims consent to the previously made rejections based on the prior art references.

In response to applicant's arguments/amendments, the amendments have not been given patentable weight because the recitations occur in the preamble. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951).

Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sheela Rao whose telephone number is (703) 305-9766. The examiner can normally be reached Tuesday - Thursday from 9:00 am to 3:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo Picard, can be reached on (703) 308-0538.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 872-9306 for Official Communications

hand-delivered responses should be brought to:

Receptionist - Sixth Floor

Crystal Park II, 2121 Crystal Drive, Arlington, Virginia

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

L-P.P

Sheela S. Rao

September 30, 2004

LEO PICARD
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100